

PROPOSED USE OF THE PLENARY POWERS TO SUPPRESS FOR ALL PURPOSES THE GENERIC NAME *SOUTHERNIA* FILIPJEV, 1927, WITH OTHER RECTIFICATIONS OF NOMENCLATURE (CLASS NEMATODA). Z.N.(S.) 940

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The present application is designed to regulate certain problems in the nomenclature of the free-living Nematodes. In the first of the three cases presented, the plenary powers are invoked in order to suppress a senior homonym so as to stabilise a junior homonym in general use. The second case is concerned with a generic name which, though originally proposed as an oversight, is useful for taxonomic purposes, and which should therefore be preserved. The third case is concerned with a generic name which was at first wrongly, and then later, rightly found to be a homonym, and with the stabilisation of the replacement name.

Case No. 1

2. Southern, 1914 (*Proc. roy. Irish Acad.* 31 (54) : 41) established the new genus *Demania* (Class Nematoda) and referred to it only the two new species *Demania major* and *Demania minor*. The generic name was, however, a junior homonym of *Demania* Laurie, 1906 in Herdman, *Rep. Ceylon Pearl Fish.* 5 : 396 (Class Crustacea).

3. In 1926 Baylis & Daubney (*Syn. Fam. Gen. Nemat.* : 112) proposed the generic name *Rhabdodemania* as a replacement name for *Demania* Southern, 1914, *non Demania* Laurie, 1906, and designated *Demania major* Southern as the type-species of their new genus. This species was eligible for subsequent designation as the type-species of *Demania* Southern, for which no earlier type-designation is known, so that under the Rules, it is the type-species both of *Demania* Southern and of *Rhabdodemania* Baylis & Daubney.

4. Filipjev, in 1927 (*Arch. f. Naturgesch.* 91 : 14, pl. 3, figs. 8, 9) proposed the new generic name *Southernia* as a replacement name for *Demania* Southern, 1914, and included in it only the species *gracilis* Ditlevsen, and *Demania minor* Southern. In the same paper, however (: 64, 90), Filipjev used, not his own new name *Southernia*, but *Rhabdodemania* Baylis & Daubney, 1926, and he quoted *Demania major* Southern as type-species. It seems probable that Filipjev had proposed the replacement name *Southernia* in the manuscript of his paper, and that he had later discovered the earlier replacement name *Rhabdodemania*, but that he had not corrected the proof to read *Rhabdodemania* on page 14 and in the explanation of pl. 3, figs. 8, 9.

5. In 1929 Allgén (*Zool. Jahrb.* 57 : 436) proposed the new genus *Southernia* for the single new species *Southernia zosterae*, from the west coast of Sweden, which is therefore the type-species by monotypy. The generic name is regarded as taxonomically valid and is in current use. It is, however, invalid as a junior homonym of *Southernia* Filipjev, which is itself a junior objective synonym of *Rhabdodemania* Baylis & Daubney (since both are replacement names for

Demania Southern, *non* Laurie). The Commission is therefore asked to use its Plenary Powers to suppress the generic name *Southernia* Filipjev, 1927 so as to validate the generic name *Southernia* Allgén, 1929.

Case No. 2

6. Bastian, 1865 (*Trans. linn. Soc. London* 25 : 157) established the new genus *Sphaerolaimus* for the single new species *Sphaerolaimus hirsutus* Bastian (*ibid.* : 157–158, pl. 13, figs. 192–194), which is therefore the type-species by monotypy.

7. Ditlevsen, 1918 (*Vid. Medd. dansk. naturh. Forend.* 70 : 149, 179, pls. 7, 8) described his new species *paradoxus* in the genus *Sphaerolaimus* Bastian. This species has since been found only once, in a fifty-year old sample from Greenland (Allgén, 1954). In his list of figures, however, Ditlevsen established the new genus *Parasphaerolaimus*, with *paradoxus* as the type-species, by monotypy. He probably named the new genus while his paper was in proof and neglected to change the generic name in the text, but in any case the name is accompanied by a reference to a figure and is therefore available under the rules relating to generic names published before 1931.

8. There are significant taxonomic differences between the old genus *Sphaerolaimus* and *Parasphaerolaimus*, and the latter ought to be preserved as the generic name for the species *paradoxus* Ditlevsen, 1918.

Case No. 3

9. In 1894 Cobb (*Proc. linn. Soc. N.S. Wales* (2) 8 : 420) described the new genus *Fimbria* (Class Nematoda), with the new species *Fimbria tenuis* as the type-species, by monotypy. The generic name was, however, preoccupied by *Fimbria* Bohadsch, 1761 (Phylum Mollusca), and in 1905 Cobb (*in* Stiles & Hassal, *Bull. U.S. Bur. anim. Ind.* No. 79 : 107) proposed the new name *Imbrilla* as a replacement for *Fimbria* Cobb, 1894, *non* Bohadsch.

10. In 1927 Allgén (*Zool. Jahrb. (Syst.)* 57 : 492) described a new genus *Fimбриella*, with *Fimбриella kornöensis* [sic] new species as the type-species by monotypy. This generic name has been mistakenly rejected by some authors as a homonym of *Imbrilla* Cobb.

11. *Fimбриella* Allgén, 1927, is nevertheless invalid, as a homonym of *Fimбриella* Stoliczka, 1871 (Class Pelecypoda). Strand therefore replaced *Fimбриella* Allgén by *Allgenia* Strand, 1934 (*Folia zool. hydrobiol.* 6 : 271). *Imbrilla* Cobb, 1905, and *Allgenia* Strand, 1934 are thus the valid names involved in this case, and they should be placed on the Official List to prevent any further confusion.

12. In the light of the facts set out above I therefore ask the International Commission on Zoological Nomenclature :

- (1) to use its plenary powers to suppress the generic name *Southernia* Filipjev, 1927, for the purposes both of the Law of Priority and the Law of Homonymy;
- (2) to place the following generic names on the Official List of Generic

Names in Zoology :

- (a) *Rhabdodemania* Baylis & Daubney, 1926 (gender : feminine), type-species, by original designation *Demania major* Southern, 1914 ;
- (b) *Southernia* Allgén, 1929 (gender : feminine), type-species, by monotypy, *Southernia zosterae* Allgén, 1929 ;
- (c) *Sphaerolaimus* Bastian, 1865 (gender : masculine), type-species, by monotypy, *Sphaerolaimus hirsutus* Bastian, 1865 ;
- (d) *Parasphaerolaimus* Ditlevsen, 1918 (gender : masculine), type-species, by monotypy, *Sphaerolaimus paradoxus* Ditlevsen, 1918 ;
- (e) *Fimbrilla* Cobb, 1905, (gender : feminine), type-species, by monotypy, through *Fimbria* Cobb, 1894, *Fimbria tenuis* Cobb, 1894 ;
- (f) *Allgenia* Strand, 1934 (gender : feminine), type-species, by monotypy, through *Fimbriella* Allgén, 1927, *Fimbriella kornoensis* Allgén, 1927 ;

(3) to place the following specific names on the Official List of Specific Names in Zoology :

- (a) *major* Southern, 1914, as published in the binomen *Demania major* (type-species of *Rhabdodemania* Baylis & Daubney, 1926) ;
- (b) *zosterae* Allgén, 1929, as published in the binomen *Southernia zosterae* (type-species of *Southernia* Allgén, 1929) ;
- (c) *hirsutus* Bastian, 1865, as published in the binomen *Sphaerolaimus hirsutus* (type-species of *Sphaerolaimus* Bastian, 1865) ;
- (d) *paradoxus* Ditlevsen, 1918, as published in the binomen *Sphaerolaimus paradoxus* (type-species of *Parasphaerolaimus* Ditlevsen, 1918) ;
- (e) *tenuis* Cobb, 1894, as published in the binomen *Fimbria tenuis* (type-species of *Fimbrilla* Cobb, 1905) ;
- (f) *kornoensis* Allgén, 1927, as published in the binomen *Fimbriella kornoensis* [sic] (type-species of *Allgenia* Strand, 1934) ;

(4) to place the following generic names on the Official Index of Rejected and Invalid Generic Names in Zoology :

- (a) *Southernia* Filipjev, 1927, as suppressed under the plenary powers in (1) above ;
- (b) *Demania* Southern, 1914, a junior homonym of *Demania* Laurie, 1906 ;
- (c) *Fimbria* Cobb, 1894, a junior homonym of *Fimbria* Bohadsch, 1761 ;
- (d) *Fimbriella* Allgén, 1927, a junior homonym of *Fimbriella* Stoliczka, 1871 .